

Meeting Agenda W. M. Barr - EPA

2pm October 24th

- **Introductions**
 - Present for W. M. Barr & Company
 - Lisa Sloan
 - Rebecca Connor
 - Dennis Shireman
 - Larry Culleen
 - Greg Louer
- **Review of Meeting Objectives**
 - Familiarize Agency personnel with W. M. Barr coating removal products
 - Enhance EPA understanding of Barr's current and forthcoming product labelling
 - Explain Barr's efforts to ensure stripping products are not misused
 - Identify opportunities for collaboration
- **Background on W. M. Barr & Company**
 - Employee owned
 - >70 years in operation
 - Quick review of products and brands
 - Barr's distribution network and typical customers
 - Consumer
 - Professional
- **Discussion of Barr's Paint/Coating Stripping Products and Alternatives to DCM; NMP**
 - Composition
 - Uses
 - Efficacy and suitability to specific uses/surfaces/coatings
 - Container sizes and configuration
 - Alternatives
 - Performance characteristics, benefits
 - Comparative costs
 - Risks posed by alternative products
 - Environmental factors
- **Barr's Efforts to Ensure Risks Are Mitigated Successfully**
 - Labeling
 - PPE
 - Outreach and education efforts
 - Work with CPSC, trade association
- **Update on Small Business Consultation Process and Findings**
- **Discussion of EPA's Regulatory Objectives, Progress, Opportunities for Collaboration**
- **Identify Next Steps/Adjourn**



PREMIUM Stripper

Strips paint, epoxy & polyurethane from wood, metal & masonry

Disuelve pintura, pegamento y poliuretano en madera, metal y mampostería
Fuerte • Adherencia



STRONGEST
Removes Multiple
Layers of Any Finish



PASTE
Thick Brushable Formula
Clings to Surface



DANGER! ☠️ **POISON. MAY BE FATAL**
OR CAUSE BLINDNESS IF SWALLOWED.
EYE AND SKIN IRRITANT. VAPOR
EXTREMELY HARMFUL. INHALATION
OF VAPORS MAY CAUSE DEATH.

Read entire label prior to use or storage.

ONE GALLON 3.785 LITERS

¡PELIGRO! ☠️ **VENENO. PUEDE SER LETAL O CAUSAR**
CEGUERA SI SE INGIERE. IRRITANTE DE LA PIEL Y
LOS OJOS. VAPOR EXTREMADAMENTE DANINO.
INHALAR LOS VAPORES PUEDE CAUSAR LA MUERTE.
Lea toda la etiqueta antes de usar o almacenar este producto.

J8071

DANGER! ☠ POISON. VAPOR EXTREMELY HARMFUL. MAY BE FATAL IF USED IN ENCLOSED AND UNVENTILATED AREAS. USE ONLY WITH ADEQUATE VENTILATION TO PREVENT BUILDUP OF VAPORS. MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED. EYE AND SKIN IRRITANT. Do not use in areas where vapors can accumulate and concentrate such as basements, bathrooms, bathtubs, closets, or other small enclosed areas. Whenever possible use outdoors in an open air area. If using indoors open all windows and doors and maintain a cross ventilation of moving fresh air across the work area and across floor. IF STRONG ODOR IS NOTICED OR YOU EXPERIENCE SLIGHT DIZZINESS, EYE-WATERING, OR HEADACHE – STOP! VENTILATION IS INADEQUATE. LEAVE AREA IMMEDIATELY, AND GET FRESH AIR. IF THE WORK AREA IS NOT WELL-VENTILATED, DO NOT USE THIS PRODUCT. If used properly, a respirator may offer additional protection. Obtain professional advice before using. A dust mask does not provide protection against vapors.

Contains: Methanol and Methylene Chloride. Cannot be made non-poisonous. Methylene Chloride has been shown to cause cancer in laboratory animals. The risk to your health depends on the level and duration of exposure. Reports have associated neurological and other physiological damage to repeated and prolonged overexposure to solvents. Intentional misuse of this product, by deliberately concentrating and inhaling vapors can be harmful or fatal. Do not take internally. **WARNING:** This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

FIRST AID - IF SWALLOWED, immediately call your poison-control center, hospital emergency room or physician for instructions. **IN CASE OF EYE CONTACT,** immediately flush with water, remove any contact lenses, continue flushing with water for at least 15 minutes, then get medical attention. **IN CASE OF SKIN CONTACT,** irritation may result. Immediately wash with soap and water. If irritation persists, get medical attention. **INHALATION:** If inhalation of this material occurs and adverse effects result, move person to fresh air and keep comfortable for breathing, then get immediate medical attention.

KEEP OUT OF REACH OF CHILDREN DO NOT USE TO STRIP BATHTUBS. Product Category: Paint Remover MAX V.O.C. 50%

IMPORTANT INFORMATION: 1. ALWAYS use outdoors, if possible. If using indoors, open ALL windows and interior and exterior doors, and maintain moving fresh air across the workplace and floor. 2. NEVER use in basements, bathrooms, closets, or other small and enclosed spaces. 3. If strong odor is noticed, or you experience slight dizziness, eye-watering, or headache, STOP using product and leave work area immediately, and get fresh air. 4. ALWAYS wear chemical resistant gloves and chemical splash goggles.

IMPORTANT: Protect surrounding areas with a heavy plastic drop cloth. Do not use on linoleum, plastic, rubber, asphalt tile, fiberglass or other synthetics. Use over a small area because health and safety risks will increase dramatically when used over large areas. **HELPFUL TIPS:** For best results, use in temperatures between 65°F and 85°F and away from strong breeze and hot sun. If applying to a vertical surface, begin at the bottom and work up because vapors can accumulate near the floor. **CLEAN UP:** Return unused stripper to the original container. The work area and tools can be cleaned up with soap and water. Wash arms and hands with cold water and soap.

DIRECTIONS FOR USE: 1. Shake well. 2. Pour into a metal container and lay a thick coat on with a paint brush. Brush in one direction only. Leave the area and let the stripper do the work. 3. After 15 minutes, test scrape a small area to see if finish is ready for removal. Remove loosened finish by gently scraping in direction of wood grain with a plastic stripping tool. A toothbrush, toothpick or stripping brush will help remove old finish buried in recesses. Multiple coats or stubborn finishes may require repeat application. 4. Use a clean abrasive pad dipped in After Wash or Odorless Mineral Spirits to loosen remaining finish and remove any residue. Surface should be completely clean and dry before refinishing.

¡PELIGRO! ☠ VENENO. VAPOR EXTREMADAMENTE DAÑINO. PUEDE SER FATAL SI SE USA EN ÁREAS SIN VENTILACIÓN Y CERRADAS. USE ÚNICAMENTE CON UNA VENTILACIÓN ADECUADA PARA EVITAR LA ACUMULACIÓN DE VAPORES. No lo use en áreas donde los vapores se pueden acumular y concentrar, tales como sótanos, baños, bañeras, armarios o en otras pequeñas áreas cerradas. Siempre que sea posible utilícelo en el exterior, en una zona al aire libre. Si se utiliza bajo techo, abra todas las ventanas y las puertas y mantenga una ventilación cruzada de aire fresco en movimiento a través del área de trabajo y del suelo. SI PERCIBE UN OLOR FUERTE O EXPERIMENTA UN POCO DE MAREO, LAGRIMEO O DOLOR DE CABEZA - ¡DETÉNGASE! LA VENTILACIÓN ES INADECUADA. ABANDONE LA ZONA INMEDIATAMENTE Y TOME AIRE FRESCO. SI EL ÁREA DE TRABAJO NO ESTÁ BIEN VENTILADA, NO USE ESTE PRODUCTO. Si se usa correctamente, una máscara antigás puede ofrecer una protección adicional. Obtenga asesoría profesional antes de usarla. Una máscara para el polvo no otorga protección contra los vapores.

Contiene: Cloruro de metileno. Se ha demostrado que el cloruro de metileno causa cáncer en animales de laboratorio. El riesgo a la salud depende del nivel y de la duración de la exposición. Algunos informes han asociado daños neurológicos y otros fisiológicos con la sobreexposición a solventes de manera repetida y prolongada. El uso indebido de este producto para concentrar e inhalar de manera deliberada sus vapores puede resultar dañino o mortal. No ingerir. **ADVERTENCIA:** Este producto contiene productos químicos que, según los conocimientos del Estado de California, producen cáncer u defectos congénitos u otros daños reproductivos.

PRIMEROS AUXILIOS - SI SE INGERE EL PRODUCTO, llame de inmediato a un centro de control de intoxicaciones, a la sala de emergencias de un hospital o a su médico para obtener instrucciones. **SI EL PRODUCTO ENTRA EN CONTACTO CON LOS OJOS,** enjuague de inmediato con abundante agua, quítese los lentes de contacto en caso de llevar alguno, continúe enjuagando durante al menos 15 minutos, y a continuación, consiga asistencia médica de inmediato. **EN CASO DE CONTACTO CON LA PIEL** puede resultar en irritación. Lávese inmediatamente con agua y jabón. Si persiste la irritación, solicite atención médica. **INHALACIÓN:** Si se inhala de este producto y como resultado se presentan efectos adversos, ubique a la persona en un lugar con aire fresco y manténgalo cómodo para respirar y, a continuación, consiga atención médica de inmediato.

MANTÉNGASE FUERA DEL ALCANCE DE LOS NIÑOS NO LO UTILICE PARA DESMONTAR BAÑERAS.

INFORMACIÓN IMPORTANTE: 1. Utilícelo SIEMPRE al aire libre, si es posible. Si se utiliza bajo techo, abra TODAS las ventanas y puertas interiores y exteriores, mantenga una ventilación cruzada de aire fresco en movimiento a través del área de trabajo y del suelo. 2. NUNCA lo utilice en sótanos, baños, armarios o en otros espacios pequeños y cerrados. 3. Si percibe un olor fuerte o experimenta un poco de mareo, lagrimeo o dolor de cabeza, DETÉNGA su uso y abandone el área de trabajo de inmediato, y tome aire fresco. 4. SIEMPRE use guantes resistentes a los químicos y gafas protectoras.

IMPORTANTE: No lo mezcle con ningún otro producto. Proteja las áreas adyacentes con un plástico grueso. No lo use en linóleo, plástico, caucho, asfalto, fibra de vidrio o en otros sintéticos. Use en un área pequeña porque los peligros para la salud y la seguridad aumentarán dramáticamente al usarse en áreas grandes. **CONSEJOS ÚTILES:** Para obtener mejores resultados, úselo en superficies a temperaturas entre los 65°F y 85°F y lejos de la brisa fuerte y la luz directa del sol. Si lo aplica en una superficie vertical, comience en la parte inferior y trabaje hacia arriba porque los vapores pueden acumularse cerca del piso.

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LIMPIEZA: Devuelva cualquier removedor que haya sobrado en la botella al tarro. El área de trabajo y las herramientas pueden limpiarse con agua y jabón. Lávese los brazos y las manos con agua fría y jabón.

GKS3 / J8309



SCAN, WATCH
& LEARN



IMPORTADOR SERVICIOS HOME
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MEXICO R.F.C. SHD-940509-158
TEL 81 55 70 00



Klean-Strip® & CitriStrip® REMOVER GUIDE

Strippers - America's #1 Stripper Brand



Product	Premium Brushable	Premium Sprayable	Strip-X® Brushable	Adhesive Remover	CitriStrip® Gel
Chemical	Methylene Chloride	Methylene Chloride	Methylene Chloride	Methylene Chloride	NMP
Flammability	Non-Flammable	Non-Flammable	Flammable	Non-Flammable	Not Flammable
Ready to Strip	15 Minutes	15 Minutes	30 Minutes	30 Minutes	4 hours
Surface Type	Wood, Metal & Masonry	Wood & Metal & Masonry	Wood, Metal & Masonry	Wood, Metal, Concrete & Masonry	Wood, Metal & Masonry
Works Best on these Coatings	Oil /alkyd based paint, Polyurethane, Epoxy, Varnish & Shellac	Oil /alkyd based paint, Polyurethane, Epoxy, Varnish & Shellac	Oil /alkyd based paint, Polyurethane, Stain & Shellac	Adhesives & Mastics	Oil /alkyd based paint, Varnish, Lacquer & Shellac
Comments	<ul style="list-style-type: none"> • Fastest & most effective 	<ul style="list-style-type: none"> • Sprayable stripper 	<ul style="list-style-type: none"> • Great value priced remover that works well on stains and other coatings • Removes wood stains 	<ul style="list-style-type: none"> • Strips all tough flooring adhesives, mastics, and cove based adhesives 	<ul style="list-style-type: none"> • Safe and effective alternative to methylene chloride removers • Stays wet & active for up to 24 hours

Some states limit usage based on VOC regulations. See your state and local applicable rules.

Choose the Right Remover



Klean-Strip® Premium Stripper

- Works in 15 minutes or less
- Removes paint, epoxy, polyurethane, varnish & shellac from wood, metal and masonry
- Paste formula clings to vertical surfaces without runs or drips
- The most powerful stripper for the toughest jobs
- Fastest way to strip multiple layers of almost any finish from most surfaces



Klean-Strip® Premium Sprayable Stripper

- Works in 15 minutes or less
- Removes paint, epoxy, polyurethane, varnish & shellac from wood, metal and masonry
- Thin liquid formula with a convenient spray bottle for quick coverage
- All the strength of KS-3 Premium in a sprayable form to get into grooves & crevices



Klean-Strip® Strip-X Stripper

- Works in 30 minutes or less
- Removes stain from wood and removes shellac, varnish & paint from wood, metal & masonry
- Paste formula clings to vertical surfaces without runs or drips
- Good for quickly removing multiple layers of latex paint, or for getting back to the original wood by removing pigmented wood stains



Klean-Strip® Klean-Kutter Remover

- Works in 30 minutes or less
- Dissolves clear finishes such as varnish, lacquer, polyurethane & shellac from all types of wood
- Thin liquid formula brushes quickly & evenly or can be applied with a stripping pad
- Safe to use on antiques and fine furniture to refinish without harming the wood or damaging glue joints & veneers



CitriStrip® Paint & Varnish Stripping Gel

- Works in 4 hours but stays wet and active for up to 24 hours
- Removes paint, varnish, polyurethane, lacquer & shellac from wood, metal and masonry
- Thick gel formula clings to vertical surfaces without runs or drips
- Safer formula with a pleasant orange scent -- Contains no methylene chloride
- Very easy to use formula for the novice -- Can leave on surface overnight to strip multiple layers

Chemical (Neat)	Alkyd (5)			Epoxy (3)		
	15 min	30 min	1 hrs	15 min	30 min	1 hrs
methylene chloride	5	5	5	2	2	2
trans-1,2 dichloroethylene	5	5	5			
1,3 dioxalane	5	5	5			2
n-methyl-2-pyrrolidone		5	5			
acetone	5	5	5			
dimethoxymethane (methylal)		5	5			
n-butyl propionate			5			
dimethyl sulfoxide (DMSO)			4			
dimethyl carbonate						
benzyl methyl ether						
TOC (2,5,7,10 tetraoxaundecane)						
3-methoxy-3-methyl-1-butyl acetate (MMB-AC)						
Steposol MET-10U						
PCBTF/Oxsol 100						
3-methoxy-3-methyl-1-butanol (MMB)						
Eastman Omnia (butyl-3-hydroxybutyrate)						
benzyl alcohol						
dibasic esters (LVP)						
dibutoxymethane (butylal)						
propylene carbonate						
Elevance Clean 1200						
soya methyl ester						
glycerol formal						

No effect on Coating	
Slight softening but no removal with plastic scraper	
Difficult removal with much effort (number of layers listed)	2
Complete removal	5

Meeting materials submitted by WM Barr for 10-24-16 Meeting with EPA

Company	Paint Remover	Ingredients (MSDS)	Alkyd (5 Layers)					Epoxy (3 Layers)			
			5 min	15 min	30 min	1 hrs	4 hrs	15 min	30 min	1 hrs	4 hrs
W. M. Barr	Klean-Strip Aircraft Remover	methylene chloride/methanol/Tall oil/ammonium hydroxide/xylene	5	5	5	5	5	2	2	2	2
	Klean-Strip Premium Stripper	methylene chloride/methanol/Stoddard solvent	5	5	5	5	5	2	2	2	2
	Klean-Strip Strip-X Stripper	methylene chloride/methanol/toluene/nonyl phenol ethoxylate/acetone/xylene	0	5	5	5	5	0	0	0	2
	Citristrip Safer Paint & Varnish Stripping Gel	NMP/DBE	0	0	0	5	5	0	0	0	0
	Experimental Formula (benzyl alcohol)	benzyl alcohol	0	0	0	0	0	0	0	0	0
	Experimental Formula (DBE)	DBE	0	0	0	0	0	0	0	0	0
Dumond	Peel Away 1	calcium hydroxide/magnesium hydroxide/sodium hydroxide	0	0	1	3	5	0	0	0	0
	Peel Away 5 Soy Based	benzyl alcohol/NMP/soya methyl ester/DBE	0	0	0	0	5	0	0	0	0
	Peel Away 7	benzyl alcohol/NMP/DBE?	0	0	0	0	0	0	0	0	0
	Smart Strip	water/benzyl alcohol	0	0	0	0	0	0	0	0	0
	Smart Strip Pro	water/benzyl alcohol/formic acid	0	0	0	0	0	0	0	0	0
Ecoprocote	EcoFast HD Heavy Duty Paint Stripper	water/benzyl alcohol	0	0	0	0	0	0	0	0	0
EZ Strip	EZ Strip Paint and Varnish Stripper	DBE/triethyl phosphate	0	0	0	0	0	0	0	0	0
Franmar	Soy-Gel Paint and Urethane Remover	NMP/DBE/soy ester	0	0	0	0	5	0	0	0	0
Motsenbocker	Lift Off Paint and Varnish Remover	acetone/trade secret ingredients	0	0	0	0	0	0	0	0	0
Packaging Service Co.	Crown Paint Strip Next	DBE/DMSO	0	0	0	0	5	0	0	0	0
PPG	DuraPrep 200 Coating Remover (Gel)	benzyl alcohol/solvent naphtha/2-aminoethanol/nonylphenol, branched ethoxylated	0	0	0	0	5	0	0	0	0
	DuraPrep 240 Industrial Coating Remover (Gel)	benzyl alcohol/hydrogen proxide/solvent naphtha/glycolic acid/malic acid/barium bis(dinonylnaphthalenesulphonate)/amines, coco alkyl, ethoxylated	0	0	0	0	0	0	0	0	0
	DuraPrep Prep 400 Overspray Remover	benzyl alcohol/petroleum distillates/glycolic acid/quaternary ammonium compounds/hydrogen proxide	0	0	0	0	0	0	0	0	0
Solvent Kleene	D-Zolve 1012 Powder Coating Remover (immersion tank)	alkyl methyl ester/potassium hydroxide/cyclic amide	0	1	2	2	5	0	0	0	0
	D-Zolve 15-33R (aircraft)	alkyl methyl ester/petroleum naphtha/benzyl alcohol/methyl phenyl ether	0	0	0	0	5	0	0	0	0
Sunnyside	Multi-Strip Professional Paint Remover	DBE/NMP/formic acid	0	0	0	0	5	0	0	0	0
	Ready Strip Pro	DBE/NMP/formic acid	0	0	0	0	0	0	0	0	0
	Ready Strip Safer Paint & Varnish Remover	DBE/NMP/formic acid	0	0	0	0	0	0	0	0	0
	Ready-Strip Spray	NMP/DBE/monoethanolamine	0	0	0	0	0	0	0	0	0
	Ultri-Strip	DBE/NMP/formic acid	0	0	0	0	5	0	0	0	0
This Stuff Works, Inc.	TSW2 Multi-Master	NMP/DBE	0	0	0	0	5	0	0	0	0
	TSW2G Multi-Master (Gel)	NMP/DBE	0	0	0	0	5	0	0	0	0
	TSW3G (GEL) Mason-Master	potassium hydroxide/butyl cellosolve	0	0	1	1	4	0	0	0	0
	TSW9 Plasti-Master	DBE/proprietary surfactant	0	0	0	0	0	0	0	0	0
Zinsser	Magic Strip Citrus-Action	NMP/DBE/d-limonene	0	0	0	0	5	0	0	0	0

no layers of paint were removed with plastic paint scraper	
layers of paint removed with a plastic paint scraper	
all layers of latex paint removed or all layers of alkyd paint have popped	

Paint Remover	Ingredients (MSDS)	Alkyd (5 Layers)					Epoxy (3 Layers)			
		5 min	15 min	30 min	1 hrs	4 hrs	15 min	30 min	1 hrs	4 hrs
Klean-Strip Aircraft Remover	methylene chloride/methanol/Tall oil/ammonium hydroxide/xylene	5	5	5	5	5	2	2	2	2
Klean-Strip Premium Stripper	methylene chloride/methanol/Stoddard solvent	5	5	5	5	5	2	2	2	2
Experimental Toluene Based Paint Remover	toluene/acetone/methanol	0	5	5	5	5	0	0	0	0
Experimental 1,2 Trans Dichloroethylen Based Paint Remover	1,2 trans dichloroethylene/acetone/methanol	0	5	5	5	5	0	0	0	0
Experimental 1,3 Dioxolane Based Paint Remover	1,3 dioxolane/acetone/methanol	0	5	5	5	5	0	0	0	0
Citristrip Safer Paint & Varnish Stripping Gel	NMP/DBE	0	0	0	5	5	0	0	0	0
Smart Strip	water/benzyl alcohol	0	0	0	0	0	0	0	0	0
EZ Strip Paint and Varnish Stripper	DBE/triethyl phosphate	0	0	0	0	0	0	0	0	0

no layers of paint were removed with plastic paint scraper	
layers of paint removed with a plastic paint scraper	
all layers of paint removed with a plastic paint scraper	

Paint Remover	Ingredients (MSDS)	Automotive Coating			
		15 min	30 min	1 hrs	4 hrs
Klean-Strip Aircraft Remover	methylene chloride/methanol/Tall oil/ammonium hydroxide/xylene				
Klean-Strip Premium Stripper	methylene chloride/methanol/Stoddard solvent				
Experimental Toluene Based Paint Remover	toluene/acetone/methanol				
Experimental 1,2 Trans Dichloroethylen Based Paint Remover	1,2 trans dichloroethylene/acetone/methanol				
Experimental 1,3 Dioxolane Based Paint Remover	1,3 dioxolane/acetone/methanol				
Citristrip Safer Paint & Varnish Stripping Gel	NMP/DBE				
Smart Strip	water/benzyl alcohol				
EZ Strip Paint and Varnish Stripper	DBE/triethyl phosphate				

No effect	
Stripped clear coat and top coat	
Stripped clear coat, top coat and base coat	